	Application No.	Applicant(s)
Notice of Allowability	09/455,851	SLUZEWSKI ET AL.
	Examiner	Art Unit
	Craig A. Renner	2652
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31 This communication is responsive to paper(s) filed 06 Mail The allowed claim(s) is/are 15-18 and 34-41 (renumbered The drawings filed on 06 May 2005 & 15 March 2004 are Sheet: Acknowledgment is made of a claim for foreign priority is a) All b) Some* c) None of the:	pears on the cover sheet will S (OR REMAINS) CLOSED in S (OR REMAINS) CLOSED in RIGHTS. This application is s 13 and MPEP 1308. BY 2005. Control of the examiner of the exam	th the correspondence address in this application. If not included unication will be mailed in due course. THIS subject to withdrawal from issue at the initiative
Certified copies of the priority documents have		
 Certified copies of the priority documents have Copies of the certified copies of the priority described international Bureau (PCT Rule 17.2(a)). * Certified copies not received:	ocuments have been received " of this communication to file	d in this national stage application from the
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gi		
 CORRECTED DRAWINGS (as "replacement sheets") mu (a) including changes required by the Notice of Draftspe 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examine Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in 	rson's Patent Drawing Review r's Amendment / Comment or 1.84(c)) should be written on to	r in the Office action of he drawings in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB Paper No./Mail Date	6. Interview S Paper No. 7. Examiner's	formal Patent Application (PTO-152) ummary (PTO-413), (Mail Date Amendment/Comment Statement of Reasons for Allowance

Application/Control Number: 09/455,851 Page 2

Art Unit: 2652

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Brendan J. Hanley on 28 July 2005.

2. The application has been amended with *claim changes beginning on page 3* and *title changes beginning on page 7* as follows:

IN THE CLAIMS:

The claim listing has been amended to read as follows:

1-14. (Canceled).

15. (Currently Amended) A head gimbal assembly comprising:

a suspension;

a head interconnect circuit being attached to and disposed along the suspension, the head interconnect circuit including a first conductive material; and a slider comprising a top [[,]] and a bottom; and

a flex circuit having a first and second surface, wherein the first surface is opposite the second surface, further wherein the first surface <u>is</u> attached to the top of the slider, and at least one interconnect pad is disposed on the second surface of the flex circuit in an area between the slider and the suspension for providing electrical contact with the conductive material of the head interconnect circuit.

16. (Previously Presented) The head gimbal assembly of claim 15, wherein the slider includes a front end and at least one bond pad disposed on the front end, and the flex circuit further includes a second conductive material extending between the at least one bond pad and the at least one interconnect pad, and the conductive material of the flex circuit is electrically connected to the at least one interconnect pad and to the at least one bond pad.

- Page 4
- 17. (Currently Amended) The head gimbal assembly of claim 16, wherein the slider flex circuit includes first, second, third, and fourth interconnect pads disposed on the second surface of the flex circuit, and the slider includes first, second, third, and fourth bond pads disposed on the front end of the slider, wherein the at least one interconnect pad is one of the first, second, third or fourth interconnect pads, and the at least one bond pad is one of the first, second, third or fourth bond pads.
- 18. (Currently Amended) The head gimbal assembly of claim 17, wherein the first and second bond pads are electrically coupled to a first pair of positive and negative polarities of the slider for reading data, respectively, and the third and fourth bond pads are electrically coupled to a second pair of positive and negative polarities of the slider for writing data, respectively, and the first, second, third, and fourth interconnect pads are arranged such that the polarities of the bond pads match with polarities from the interconnect pads.
- 19-33. (Canceled).
- 34. (Previously Presented) A head gimbal assembly comprising:
 - a suspension, the suspension having a plurality of first conductive material;
 - a slider having a top and a bottom;
- a polymer flex circuit having a first and second surface, wherein the first surface

is positioned on the top of the slider and the second surface is positioned opposite of the

Art Unit: 2652

first surface, further wherein the polymer flex circuit has a plurality of second conductive material positioned on the second surface; and

at least one interconnect pad disposed between the plurality of first conductive material and the plurality of second conductive material to establish an electrical connection.

- 35. (Previously Presented) The head gimbal assembly of claim 34, wherein the slider further includes at least one bond pad wherein the bond pad provides for an electrical connection to a transducer positioned in the slider.
- 36. (Previously Presented) The head gimbal assembly of claim 35, wherein said plurality of second conductive material extends and is electrically connected to said bond pad.
- 37. (Previously Presented) The head gimbal assembly of claim 35, wherein the slider further includes a front end, further wherein said bond pad is positioned on said front end.
- 38. (Currently Amended) The head gimbal assembly of claim 35, wherein the slider flex circuit includes first, second, third, and fourth interconnect pads disposed on the back second surface of the slider flex circuit, and the slider includes first, second, third, and fourth bond pads disposed on the front end of the slider, wherein the at least

Application/Control Number: 09/455,851

Art Unit: 2652

one interconnect pad is one of the first, second, third or fourth interconnect pads, and

Page 6

the at least one bond pad is one of the first, second, third or fourth bond pads.

39. (Previously Presented) The head gimbal assembly of claim 38, wherein the first and second bond pads are electrically coupled to a first pair of positive and negative polarities of the slider for reading data, respectively, and the third and fourth bond pads are electrically coupled to a second pair of positive and negative polarities of the slider for writing data, respectively.

- 40. (Currently Amended) The head gimbal assembly of claim 39, wherein the first, second, third, and fourth interconnect pads are arranged such that the polarities of the bond pads match with polarities of the interconnect pads.
- 41. (Previously Presented) The head gimbal assembly of claim 40, wherein the first and second interconnect pads are electrically connected to the first and second bond pads of the slider, respectively, and the third and fourth interconnect pads are electrically connected to the third and fourth bond pads of the slider, respectively.

Application/Control Number: 09/455,851

Art Unit: 2652

IN THE TITLE:

The title has been amended to read as follows:

--HEAD GIMBAL ASSEMBLY WITH FLEX CIRCUIT ARRANGEMENT BETWEEN SLIDER AND HEAD INTERCONNECT ASSEMBLY--.

Page 7

Art Unit: 2652

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Craig A. Renner whose telephone number is (571) 272-7580. The examiner can normally be reached on Tuesday-Friday 9:00 AM - 7:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa T. Nguyen can be reached on (571) 272-7579. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Craig A. Renner Primary Examiner Art Unit 2652

CAR